

I Claim:

1. An integrated mouse and pad pointing device for cursor control in a display means of a computational device comprising:

5 (a). A stationary base.

(b). A pad plate with a straight or curvilinear slot.

(c). A sliding means that allows said pad plate slides relative to said stationary base.

10 (d). A pad plate holding means that prevents said pad plate from separating from said stationary base when said pad plate slides relative to said stationary base.

(e). A mouse.

(f). A sliding means that allows said mouse slides in said slot of said pad plate

15 (g). A set of movement or position sensing means that detects the movement or position of said mouse relative to said stationary base and generates and sends a signal of the movement or position of said mouse relative to said stationary base to a mouse movement or position computing means.

20 (h). Said mouse movement or position computational means computes and determines the movement or the position of said cursor in said display means of said computational device from said signal of the movement or position of said mouse relative to said stationary base.

25 2. An integrated mouse and pad pointing device for cursor control in a display means of a computational device, as stated in claim 1, further including

(a). One or a plurality of click buttons that are installed on said mouse

(b). An on-off switch means attached to said mouse under each of said click buttons that sends a signal to said computational device to signal the clicking of said click button when said click button over said on-off

switch means is clicked or pressed whereby the clicking of said buttons may be conveniently executed at the same time as when said mouse is being moved

5 3. An integrated mouse and pad pointing device for cursor control in a display means of a computational device, as stated in claim 1, wherein

(a). Said movement or position sensing means comprising a mouse-to-pad movement or position sensing means that detects the movement or position of said mouse in said slot of said pad plate relative to said pad plate and a pad-to-base movement or position sensing means that
10 detects the movement or position of said pad plate relative to said stationary base that generate and send a mouse-to-pad movement or position signal of said movement or position of said mouse in said slot of said pad plate relative to said pad plate and a pad-to-base movement or position signal of said movement or position of said pad plate relative to said stationary base, respectively, to said mouse movement or position computing means whereby the movement or position of said cursor on said display means of said computational device is determined by a combination of said mouse-to-pad movement or position signal and said movement or position signal of
15 said pad-to-base movement or position signal.

20 4. An Integrated mouse and pad pointing device for cursor control in a display means of a computational device, as stated in claim 3, further including
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(a). One or a plurality of click buttons that are installed on top of said mouse

(b). An on-off switch means attached to said mouse under each of said click buttons that sends a signal to said computational device to signal the clicking of said click button when said click button over said on-off switch means is clicked or pressed whereby the clicking of said click buttons may be conveniently executed at the same time as when said mouse is being moved.

5. An integrated mouse and pad pointing device for cursor control in a display means of a computational device, as stated in claim 1, wherein

(a). Said movement or position sensing means comprising a movement or position sensing means that detects the position or movement of said mouse in said slot of said pad plate relative to said stationary base that generates and sends a mouse movement or position signal to said mouse movement or position computing means whereby the movement or position of said cursor on said display means of said computational device is determined by said mouse movement or position signal

6. An Integrated mouse and pad pointing device for cursor control in a display means of a computational device, as stated in claim 5, further including

(a). One or a plurality of click buttons that are installed on top of said mouse

(b). An on-off switch means attached to said mouse under each of said click buttons that sends a signal to said computational device to signal the clicking of said click button when said click button over said on-off switch means is clicked whereby the clicking of said

click buttons may be conveniently executed at the same time as when said mouse is being moved.

7. An integrated mouse and pad pointing device for cursor control in a display means of a computational device comprising:

- (a). A stationary base
- (b). A pad plate with a straight or curvilinear slot
- (c). A rotational means that allows said pad plate moves pivotally about said stationary base
- (d). A pad plate holding means that prevents said pad plate from separating from said stationary base when said pad plate slides relative to said stationary base
- (e). A mouse
- (f). A sliding means that allows said mouse slides in said slot of said pad plate
- (g). A set of movement or position sensing means that detects the position or movement of said mouse and generates and sends a signal of the movement or position of said mouse to said computational device to a mouse movement or position computing means.
- (h). Said mouse movement or position computational means computes and determines the movement or the position of said cursor in said display means of said computational device from said signal of the movement or position of said mouse relative to said stationary base.

8. An integrated mouse and pad pointing device for cursor control in a display means of a computational device, as stated in claim 7, further including

- (a). One or a plurality of click buttons that are installed on top of said mouse

(b). An on-off switch means attached to said mouse under each of said click buttons that sends a signal to said computational device to signal the clicking of said click button when said click button over said on-off switch means is clicked whereby the clicking of said click buttons may be conveniently executed at the same time as said mouse is being moved

9. An integrated mouse and pad pointing device for cursor control in a display means of a computational device, as stated in claim 7, wherein

(a). Said movement or position sensing means comprising a mouse-to-pad movement or position sensing means that detects the movement or position of said mouse in said slot of said pad plate relative to said pad plate and a rotational pad-to-base movement or position sensing means that detects the rotational movement or position of said pad plate pivotally relative to said stationary base that generate and send a mouse-to-pad movement or position signal of said movement or position of said mouse in said slot of said pad plate relative to said pad plate and a rotational pad-to-base movement or position signal of said rotational movement or position of said pad plate pivotally relative to said stationary base, respectively, to said mouse movement or position computing means device whereby the movement or position of said cursor on said display means of said computational device is determined by a combination of said mouse-to-pad movement or position signal and said rotational pad-to-base movement or position signal

10. An Integrated mouse and pad pointing device for cursor control in a display means of a computational device, as stated in claim 9, further including

(a). One or a plurality of click buttons that are installed on top of said mouse

(b). An on-off switch means attached to said mouse under each of said click buttons that sends a signal to said computational device to signal the clicking of said click button when said click button over said on-off switch means is clicked or pressed whereby the clicking of said click buttons may be conveniently executed at the same time as when said mouse is being moved

11. An integrated mouse and pad pointing device for cursor control in a display means of a computational device, as stated in claim 7, wherein

(a). Said movement or position sensing means comprising a movement or position sensing means that detects the movement or position of said mouse in said slot of said pad plate relative to said stationary base that generates and sends a mouse movement or position signal to said mouse movement or position computing means whereby the movement or position of said cursor on said display means of said computational device is determined by said mouse movement or position signal

12. An Integrated mouse and pad pointing device for cursor control in a display means of a computational device, as stated in claim 11, further including

(a). One or a plurality of click buttons that are installed on top of said mouse.

(b). An on-off switch means attached to said mouse under each of said click buttons that sends a signal to said computational device to signal the clicking of said click button when said click button over

said on-off switch means is clicked whereby the clicking of said click buttons may be conveniently executed at the same time as when said mouse is being moved.

5 13. A cursor control method for a computational device with a display means comprising steps of

(a). Sliding a mouse in a slot of a pad plate and dragging said mouse against said pad plate to slide relative to a stationary base whereby the movement or position of said mouse covers a predetermined area corresponding to the display area of said display means of said computational device.

10 (b). Detecting the movement or position of said mouse in said predetermined area by a set of movement or position sensing means and sending a signal of the movement or position of said mouse to said computational device for determining the movement or position of said cursor in the display area of said display means of said computational device.

15 14. A cursor control method for a computational device with a display means comprising steps of

20 (a). Sliding a mouse in a slot of a pad plate and dragging said mouse against said pad plate to move pivotally about a stationary base plate whereby the movement or position of said mouse covers a predetermined area corresponding to the display area of said display means of said electronic computational device

25 (b). Detecting the movement or position of said mouse in said predetermined area by a set of movement or position sensing means and sending a signal of the movement or position of said mouse to said computational device for determining the movement or position of said cursor in the display area of said display means of said computational device